



What Can

QUALITY

Do For You ???

Petrobras Oil Rig - \$3B, 11 Dead, 1.5 Mil Liters Crude Spilled





ATK Initiatives

“Technical Excellence” Program

Design Margin Improvement

Testing Rigor

OICW Accelerated



Hard Target Smart Fuze Fielded



M829E3 Development Success





What are Symptoms in Munitions

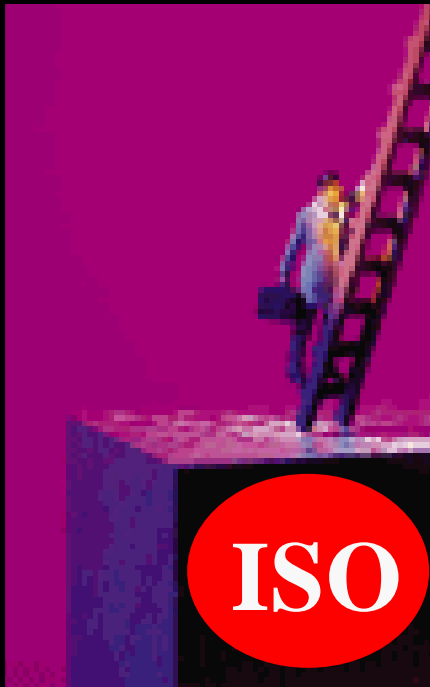
Pass LAT with 2 of 10 failures

TEST “Successes” that really fail

Critical Army programs cancelled

Two Recommendations

Go Beyond ISO



Build Quality In Early

**Cost
To
Fix**



Program Maturity



Go Beyond ISO

CULTURE

AUDITS

LESSONS LEARNED

DISCIPLINE

Build Quality In Early



➤ QFD

➤ DFA/DFM

➤ Requirements
Management

6S
Process
Improvement

Design Margins

Manufacturing
Strategy

Let's Set a Higher Standard

- **Go Beyond ISO**
- **From “Pass LAT” to “6S”**
- **Program Success the NORM**